PAKHOMOW, B.P.; TIKHONOVICH, V.I.,

Effect of the speed of growth of pulsation loading on the wear resistance of high strength cast iron. Struk.i swois.lit.splav. no.lil2-147 162. (Mina 1515)

(Cast iron...Testing) (Mochanical wear)

	APPROVED FOR RELEASE: 07/10/2001	CIA-KDF00-00513K001755020010-0
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	TIKHONOVICH, V.I.	
ľ	A new standard for wooden doors of Der. prom. 13 no.8:26 Ag 164.	residential and public buildings.
		(MIRA 17:11)
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TIKHONOVICH, V.I.; PAKHOMOV, B.P.

Wear resistance of piston rings from high-strength cast iron. Trakt. i sel'khozmash. 33 no.10:14-16 0 '63.

1. AN UKrSSR. (MIRA 17:1)

TIKHOROVICH, V.I., arkhitektor

Window and door units from plastics. Stroi. mat. 10 mc.ll:3-4
(MIRA 18:1)
N '64.

TIKHONOVICH, V.I.; MARKOVSKIY, Ye.A.; PAKHOMOV, B.P.

Wear-in characteristics of high strength cast iron. Struk.i svois.
lit.splav. no.li4&-151 '62. (MIRA 15:5)

(Cast iron-Testing) (Mechanical wear)

MARKOVSKIY, Yevgeniy Adamovich, kami.tekhn. neuk; TIKHONOVICH,

Vanir Iyanovich, kand. tekhn. neuk; TINHYY, A.1., kand.

tekhn. nauk, retsenzent

[Radioactive testing of the wear of parts of internal
combustion engines] Radioaktivnyi kontrol iznosa dotalel
dvigatelei vmutrennego sgoramiia. Kiev, Tekhnika, 1965.

74 p. (MIRA 18:10)

1 27300-66 EWT(m)/T DIAAP ACC NR AM6000750 Monograph UR Markovskiy, YEvgeniy Adamovich (Candidate of Technical Sciences); Tikhonovich, Vadim Ivanovich (Candidate of Technical Sciences) Radioactive wear control of parts of an internal combustion engine (Radioaktivnyy kontrol' iznosa detaley dvigateley vnutrennego sgoraniya) Kiev, Izd-vo "Tekhnika," TOPIC TAGS: wear resistance, internal combustion engine component, autoradiography, radioisotope PURPOSE AND COVERACE: This booklet is intended for technical-engineering and scientific personnel engaged in the study of the useful life of internal combustion engine parts. It is concerned with the wear of engine parts under varying operting conditions and contains information on the use of radioactive isotopes for determining the extent of the wear. Possiblities of accelerating an engine without increasing the wear of its parts are shown. TABLE OF CONTENTS: Foreword - 3 Operating conditions of internal combustion engines and the useful life of their parts -- 5 Installations and devices for determining wear resistance of engine parts under UDC: 621.43:546.79

L. 27300-66

ACC NRI AM6000750

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Running-in the surfaces of parts during engine break-in - 28

Wear resistance of internal combustion engine parts as a function of load, operating speed, and the combustion of air-fuel mixture — 32

The effect of intermediate operating and thermal conditions of an engine on the wear resistance of its parts -- 51

Determining wear resistance and the quality of machining and rolling of engine parts by way of autoradiography — 64

Bibliography -- 73

SUB CODE: 13/ SUBM DATE: 14Jun65/ ORIG REF: 030/ OTH REF: 006

Card 2/2 CV

TIKHONOVICH, V. Ya.

"A System of Working Cleared Fallow Ground on the Chernozem Soils of the Sumskeya Oblast." Cand Agr Sci, Pelarussian Order of Labor Red Banner Agricultural Academy, Min Higher Education USSR, Gor'kiy, 1954. (KL, No 12, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

BRAUN, M.P.; TIKHCNOVSKAYA, L.D.

Method of intersecting planes in the study of deformation distribution in the E1726 steels. Zav.lab. 27 no.8:984-986
'61.

1. Institut liteynogo proizvodstva AN USSR.

(Steel--Testing) (Deformations (Mechanics))

TIKHONOVSKAYA, L.D.; MATYUSHENKO, N.I.; ERAUN, M.P.

Effect of cerium and boron inoculation on the structure of cast austenitic steel. Struk.i svois.lit.splav. no.1:54-59 '62.

(MIRA 15:5)

(Steel, Heat-registant-Metallography) (Cerium) (Boron)

BRAUN, M.P.; TIKHONOVSKAYA, L.D.; MATYUSHENKO, N.I.

Effect of cerium and boron on the structure of cast austenitic steel.

Issl. po zharoproch. splav. 10:207-214 '63. (MIRA 17:2)

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and their correction	on with problems of strength are di	LE W To Lifting store.
alloying and modify	ying additions on the structure and	scussed. The effect of
resistant materials	s 19 analyzed. Attention is given	in the study of phases and
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   structure of heat-resistant modified steel, as related to not deformation and
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   Some problems of strength at high temperatures -- 17
   Requirements for heat-resistant materials. Classification of alloys -- 20
   Investigations in the field of heat-resistant steels and alloys -- 29
   Effect of certain alloying elements on heat resistance -- who
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	ACC NRi AP6032197 SOURCE CODE: UR/0418/66/000/005/0081/0082
	AUTHOR: Braun, M. P. (Doctor of technical sciences); Tikhonovskaya, L. D. (Engineer) Khil'chevskaya, T. V. (Engineer)
4000	ORG: none
1	TITLE: Investigation of the modifying effect of lithium on cast austenitic steel
	SOURCE: Tekhnologiya i organizatsiya proizvodstva, no. 5, 1966, 81-82
	TOPIC TAGS: Austenitic steel, cast materitic steel, lithium containing alloy, metal property/E1695_steel
The supplies	ABSTRACT: An attempt has been made to introduce lithium as a modifier into molten E1695 austenitic steel heated to 40 and 140C above liquidus. Melting was done in an induction furnace of 2 kg capacity. It was found that even a slight addition of lithium decreases the grain size of steel. For instance, the grain size of steel with 0.97% of lithium added at 120C above liquidus was 21 microns as compared with 57 microns for steel without lithium. While lithium decreases grain size, it also increases the contamination of steel and in turn has a negative effect on its properties. This can be avoided, however, by limiting the lithium content (best results obtained at 0.34%). Orig. art. has: 3 tables.
, 1	SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/
1	Card 1/1 UDC: 669.141.24:669.884

2808

26385 \$/032/61/027/008/008/020 B107/B206

18 9100

AUTHORS:

Braun, M. P. and Tikhonovskaya, L. D.

TITLE:

Use of the secant plane method for investigating the deformation distribution in 3M 726 E1726) steel

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 8, 1961, 984-986

TEXT: The authors investigated the change of grain size and degree of deformation during forging at 1000°C. The specimens used were of heatresistant 30726'EI726) steel. The dimensions of the specimens and the degree of deformation are given in a table. The specimens are of symmetrical structure, and the axis of symmetry coincides with the axis of deformation. All specimens were therefore divided into four parts along the axis, and one half was cut off from such a quarter. Polished sections were prepared from these specimens. The structure was investigated at four points: close to the surface in the center, and at a distance of one-third and two-thirds from the center. The method of secant planes was applied (Ref. 1: S. A. Saltykov, Stereometricheskaya metallografiya, Metallurgizdat (1958)). Under the effect of pressure, the total length of the grain boundaries Card 1/7

26385 \$/032/61/027/009/008/020 B107/B206

Use of the secant plane method ...

 ΣL_{tot} may be used as a criterion for the change of grain size. $\Sigma L_{tot} = \Sigma L_{iso} + \Sigma L_{or}$. Here, ΣL_{iso} is the specific grain boundary length of the isometric part, and ΣL_{or} is the specific grain boundary length of the oriented part of the system. $\Sigma L_{iso} = 2M_{ij} \sum L_{op} = M_{\perp} - M_{ij}$, where Mil is the number of nodal points of grain boundaries of flat grains in the plane perpendicular to the axis of deformation per mm2 of the ground section, M1 is the number of nodal points of grain boundaries of flat grains in the planes parallel to the axis of deformation. The degree of orientation μ of the grain boundaries of drawn grains is then determined by the relation: $\mu = (\Sigma L_{or}/\Sigma L_{tot})^{\circ}100\% = [(M_{\parallel} - M_{\parallel})/(M_{\perp} + M_{\parallel})]^{\circ}100\%$. Fig. 1 shows the relation between the degree of orientation and the distance from the specimen center. It may be seen therefrom that the orientation rises at an increased degree of deformation with an approach to the central part of the specimen. At a deformation by 15 %, the maximum degree of orientation lies at a distance of one-third from the center. At the investigated points of the longitudinal and transverse ground sections, the degree of structural deformation was determined from the following Card 2/7

Use of the secant plane method...

(Institute of Casting Processes of the Academy of Sciences

UkrSSR)

Card 4/7

ACCESSION NR: AT4013953

\$/2659/63/010/000/0207/0214

AUTHOR: Braun, M. P.; Tikhonovskaya, L. D.; Matyushenko, N. 1.

TITLE: Effect of cerium and boron on the structure of cast austenitic steel

物用的物质的种类型<u>的分别,则由能力的的种类是用的变色的</u>的能力和多数的种类的。

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya po zharoprochnykm splavam, v. 10, 1963, 207-214

TOPIC TAGS: steel, steel E1-695, alloy steel, cerium, boron, cast steel, cast steel structure, steel microhardness, steel carbide content, austenitic steel, tempered steel, aged steel, steel mechanical property

ABSTRACT: The authors report the results of studies on the structure and mechanical properties of cast austenitic steel EI-695 after modification with varying amounts of cerium and boron, and after tempering or aging. The alloys were prepared in a 0.5-kg high-frequency induction furnace. After casting, the steel was heated to 1150C for 10-20 hrs. and then quenched in water, followed by aging at 750C for 20 hours; X-ray analysis and tests of microhardness were performed at each stage. It was found that addition of cerium in amounts of only 0.01-0.03% disintegrated the dendritic structure of cast steel and produced a uniform microstructure, while larger amounts (0.1-0.3%) produced a grain structure simi-

ACCESSION NR: AT4013953

were obtained with a combination of 0.3% Ce and 0.1% B. Studies of strength and plasticity showed that these were decreased by 0.3% B, although a maximal ultimate strength (85% of that of stressed steel) was obtained with 0.08-0.18% B. Addition of Ce (0.1-0.4%) increased the strength to 80%, the relative elongation to 150% and the relative compressibility to 85% of that in stressed steel. Studies of the carbide distribution in both tempered and untempered cast steel showed only a single NbC phase, regardless of modification, but the addition of Ce and especially of B had a marked effect on the crystal lattice of the solid solution and the distribution of the carbide. Cerium displaces the carbide from the grain boundary into the center of the grain, while boron facilitates its deposition along the grain boundaries. As shown in the Enclosure, the microhardness is almost the same in the center of the grain as along the boundary after addition of Ce, while B increases the microhardness in the border zone. Addition of very small amounts of B (0.005-0.05%) leads to very high microhardness in aged cast steel. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR).

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 01

SUB CODE: MM Card 2/3.

NO REF SOV: 025

OTHER: 004

ACCESSION NR: AT4013953

ENCLOSURE: 01

Variation in microhardness (kg/mm²) of steel in relation to the addition of modifiers and the type of

Amt. of modifier	cast steel		tempered Steel		aged steel	
in %	grain boundary	grain center	grain	lorain	grain boundar	grain
0.01 Co 0.03 Co 0.00 Co 0.03 Cc 0.00 Cc 0.00 Cc 0.00 B 0.10 B 0.10 B 0.30 B 0.02 Co+0.025 B 0.3 Co+0.1 B 0.35 ICo+0.03	330 247 286 290 293 342 308 238 225 336 303 323	274 229 248 265 280 318 282 307 230 281 258 260	250 240 192 180 159 265 246 282 225 268 250 283	219 208 146 220 145 220 198 284 213 224 200 200	335 360 260 284 304 364 344 298 306 320 331 365	325 383 276 285 . 276 325 380 306 258 376 339 335

Card 3/3

BRAUN, Mikhail Petrovich; VINOKUR, Bertol'd Bentaionovich; CHERNYY,
Viktor Gavrilovich; CHERNOVOL, Arkadiy Vasil'yevich; KOSTIRKO,
Oleg Stepanovich; ALEKSANDROVA, Natal'ya Pavlovna; KRUKOVSKAYA,
Galina Nikolayevna; TIKHONOVSKAYA, Lerisa Dmitriyevna; LYASHENKO,
Lyudmila Aleksandrovna; FIRSEN, N.V., Kand. tekhn. nauk, cotv.
red.; POKROVSKAYA, Z.S., red.; KADASHEVICH, O.A., tekhn. red.

[Alloys with addition elements] Legirovannye splavy. [By] M.P.
Braun i dr. Kiev, Izd-vo AN Ukr.SSR, 1963. 142 p.

(MIRA 16:8)

(Alloys-Metallurgy)

(Foundries--Equipment and supplies)

AUTHORS: Poznyak, L.A., Zaytsev, Yu.N., and Tikhonovskiy, SOV-125-58-10-8/12

TITLE:

Peculiarities of the Structure of Magnesium Cast-Iron Welds in the Electric Slag Welding Process (Osobennosti struktury svarnykh soyedineniy magniyevogo chuguna pri

elektroshlakovoy svarke)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 10, pp 67 - 74 (USSR)

ABSTRACT: The authors present information on the investigation of

thick magnesium cast-iron joints, carried out by electric slag welding with strip electrodes and different welding power. The tests are described in detail, and the following conclusions are made: the electric slag welding process with strip electrodes can be used in welding magnesium cast-iron if parameters of the welding technology and the electrode composition have been properly selected.

It was stated that, contrary to other methods, in electric slag welding, the zone affected by heat is not subject to Card 1/2

formation of cementite. The use of magnesium cast-iron

30V-125-58-19-6/12 Peculiarities of the Structure of Magnesium Cast-Iron welds in the Electric Slag Welding Process

> strip electrodes ensures a proper passage of magnesium into the seam metal to form graphite of a globular shape. The method provides a satisfactory structure and necessary hardness of the seam and of the zone of thermal influence. There are 8 microphotos, 2 tables, 1 graph and 4 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona (Institute

of Electric Welding imeni Ye.O. Paton)

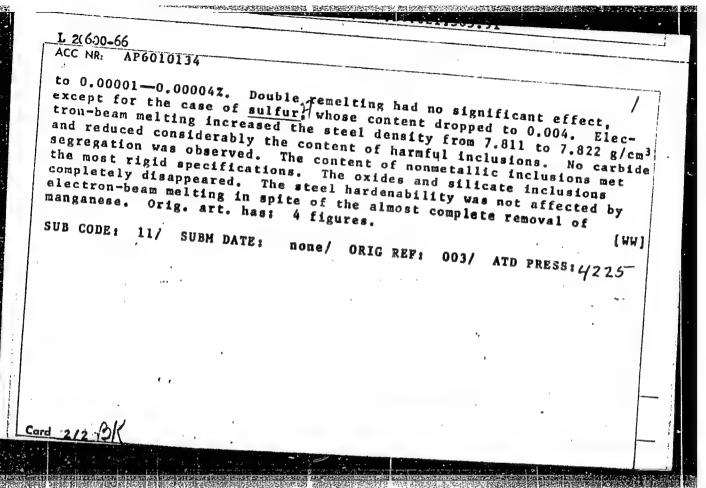
SUBMITTED: April 17, 1958

1. Cast iron-magnesium alloys--Arc welding 2. Arc welding -- Electrodes 3. Arc welding-- Metallurgical effects

Card 2/3

CIA-RDP86-00513R001755620016-8" APPROVED FOR RELEASE: 07/16/2001

20500-66 EWI(m)/EWA(d)/T/EWP(t) IJP(c) JD/DJ ACC NR AP6010134 SOURCE CODE: UR/0133/66/000/003/0230/0232 AUTHOR: Yefimenko, Yu. M.; Movchan, B. A.; Tikhonovskiy, A. L. Electric Welding Institute im. Ye. O. Patona, AN UkrSSR (Institut elektrosvarki AN UkrSSR) TITLE: Electron-beam melting and purification of Shkh15 ball-bearing SOURCE: Stal', no. 3, 1966, 230-323 TOPIC TAGS: ball bearing steel, steel purification, steel melting, ABSTRACT: Arc-melted ShKh15 ball-bearing steel was remelted in L-2 or U-143 electron-beam furnaces into 25-30 kg ingots with a diameter of 100 mm. The macrostructure of the ingots was dense and uniform; the shrinkage cavity extended to a depth of 0.2-0.3 diameter. or double remelting did not affect the carbon, silicon, and phosphorus contents but lowered the manganese, chronium, sulfur, oxygen, nitrogen, and hydrogen contents. After single remelting, manganese was reduced from 0.28 to 0.03-0.042, chromium from 1.50 to 1.40-1.412, sulfur from 0.015 to 0.006-0.008Z, oxygen from 0.0040 to 0.0007-0.0010Z nitrogen from 0.0070 to 0.0011-0.00132, and hydrogen from 0.00010 Card 1/2 UDC: 669.187.26:621.365



TIKHONOVSKIY, A.L.

Electron beam melting and refiring of nickel. Avict. SVET. 17
no.8:54-59 Ag '64. (MFRA 17:11)

1. Institut elektrosvarki imeni Patona AN UkrSSR.

L 15027-67 EPA(s)-2/ENT(m)/EFF(n)-2/ENP(k)/SWP(b)/SWP(v)/SWP(t)/EPF(c) Pr-L/Pt-10/ ACCESSION NAI APADAIS61

AUTHOR: Lakomskiy, V. I. (Cendidate of technical sciences); Tikhonovskiy, A. L. (Engineer)
TITLE: The evaporation of metal during electron-beam melting

SOURCE: Automaticheskaya svarka, no. 7, 1964, 50-53

TOPIC TAGS: electron beam melting, metal evaporation, nickel electron beam melting, electron beam power, nickel, vapor pressure, electron beam furnace

ABSTRACT: The temperature of superheating the surface layers of a metal bath during electron-beam melting was calculated and confirmed experimentally. Studies were made with nickel melted in an electron-beam-melting furnace, type L-1, constructed at the Institut elektro-svarki im. Ye. O. Patona (Electric Welding Institute). In vacuum electron-beam melting, the evaporation rate is determined by the heat supply, or the electron-beam power, and vapor formation. The relationship between the power of electron beam and the amount of nickel evaporated indicates that at low beam power there is little evapor-

Card 1/3

L 15027-65 ACCESSION NR: AF4041662

ation, but when the beam power is sufficient to overcome evaporation heat losses, increasing the heat flow significantly increases the amount of metal evaporated per unit of power increase. It is believed that the thin surface layer where the beam meets the metal accepts the energy of the retarded flow of electrons and becomes superheated. The temperature of the surface layer was calculated by the Langmuir formula from data on the amount of metal evaporated and the rate of avaporation. These values are in close agreement with readings taken with a TsEPIR-010 optical pyrometer. The relationship between the calculated surface temperature and the electron-beam power shows that the greater the power, the more of it was utilized in the metal bath (only 4.5 kilowatts were required to heat bath from 1630 to 1690C, while 6.2 kilowatts were required for heating from 1570 to 1630C). At a power value of 17-17.4 kilowatts nearly all of it is used to melt the billet and heat the metal drops to the bath temperature. The rapid increase in metal loss in the 1630-1690C range is explained by the increase in bath temperature and the greater increase in vapor pressure of the metal vapors. Orig. art. has: 4 figures and 1 table.

Card 2/3

L 15027-65
ACCESSION NR: AP4041862

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Institute of Electric Welding, ANUKrSSR)

SUBMITTED: 28Dec63 ENCL: 00 SUB CODE: HM

NO REF SOV: 003 OTHER: 000 ATD PRESS: 3143

SISKARIN DUR EIPERSKUM INTERNITERINGEN EINE BERKEINE GESTA. DESKONE DIE KOLD ER SEIDEN EINE GESTAMMUNIKARINGEN.

ACCESSION NR: AP4043236

AUTHOR: Tikhonovskiy, A. L.

TITLE: Electron-beam melting and refining of nickel

SOURCE: Avtomaticheskaya svarka, no. 8, 1964, 54-59

TOPIC TAGS: nickel, nickel purity, nickel gas content, nickel property, nickel mechanical property, nickel recrystallization temperature, nickel grain size, nickel electron beam melting, nickel vacuum

ABSTRACT: Mickel specimens of three purity grades, NO [Ni + Co at least 99.99%]. NI [Ni + Co ≥ 99.3%], and NPZ [Ni + Co ≥ 99.5%] were remelted in an electron-beam furnace in a vacuum of 10 —10 mm Hg. The involation of lease and hal a granse-prained structure. The grain size varied depending on the rate of inget pulling from 8 mm at 120 mm/hr to 4 mm at 430 mm/hr. The gas content dropped in HP2 nickel from 4.34 cm3/100 g to 2.13 cm3/100 g. The electron-beam melting eliminated or greatly reduced not only the contents of such volatile metals as zinc, magnesium, cadmium, and manganese, but also those of

Card 1/2

arc melting

L 12946-65

ACCESSION NR: AP4043206

iron, silicoa, and copper, the vapour pressure of which is near that of nickel. For instance, in NP2 nickel the content of Fe, Si, and Cu decreased from 0.034, 0.096, and 0.042 to 0.018, 0.017, and 0.02%, respectively. Electron-beam melting had little or no effect on tensile atrength, but greatly improved ductility; the elongation increased 4-5 times over that of vacuum-archivelted metal. The recrystallization temperature of electron-lear melted nickel is approximately THE LEAD COMPETATION COMPETATION OF VACUUM-Arc-melted hickel. The high ductility of electron-beam-melted nickel maker it possible to eliminate hot rolling, Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR(Eleccric Welding Institute, AN EkrSSR)

SUBMITTED: 10Nov63

ATD PRESS: 1098

ENCL: 00

SUB CODE: HM

NO REF SOV: 004

OTHER: 000

Card 2/2

VINOKUR, Bertol'd Bentsionovich; BRAUN, Mikhail Petrovich;
MATYUSHENKO, Nelli Ivanovna; TIKHONOVSKAYA, Larisa
Dmitriyevna; DRAYGOR, D.A., doktor tekhn. nauk, otv. red.

[Heat resistant steel; alloying, inoculation, and heat treatment] Zharoprochnaia stal; legirovanie, modifitsirovanie i goriachaia obrabotka. Kiev, Maukova dumka, 1965. (MIKA 18:6)

POZNYAK, L.A., kand. tekhn. nauk; ZAYTSEV, Yu.N., inzh.; TIKHONOVSKIY, A.L., inzh.

GENERAL PRINCE PRINCE DE SECONO DE S

Special characteristics of the structure of magnesium cast iron joints welded by the electric slag method. Avtom. svar. 11 no.10: 67-74 0 '58. (MIRA 11:12)

1.Ordena Trudevege krasnege Znameni Institut elektrosvarki im. Ye.O. Patena AN USSR. (Cast iron--Welding) (Electric welding)

TIKHUNUVSKIYS H.L.

AID Nr. 988-10 12 June

ELECTRON-BEAM MELTING FURNACE (USSR)

Movchan, B. A., and A. L. Tikhonovskiy. Avtomaticheskaya svarka, no. 4, Apr 1963, 1-6. S/125/63/000/004/001/011

The Electric Welding Institute imeni Ye. O. Paton, Ukrainian Academy of Sciences, has designed and built two laboratory-size electron-beam melting furnaces, the M-1 and M-2. In the M-1 the electron gun and the mold are mounted in a common vacuum chamber. The vacuum system has a pumping rate of 3500 to 4000 l/sec and can create a vacuum of $3 \cdot 10^{-6}$ mm Hg. The M-1 furnace operates with an accelerating voltage of 12 to 14 kv. Ingots up to 60 mm in diameter and 500 mm long of metals including refractory, such as Nb, Mo, and Zr, and their alloys can be melted. Since the electron gun is in the same chamber with the mold, the metal vapors penetrate into the cathode zone and condense on the cathode elements and high-voltage insulation, requiring frequent cleaning of insulation and replacement of cathode elements, especially

Card 1/2

AID Nr. 988-10 12 June

ELECTRON-BEAM MELITING FURNACE [Cont'd]

\$/125/63/000/004/001/011

in the melting of refractory metals. This drawback has been eliminated in the II-2 furnace, which has separate vacuum chambers for the gun and mold. Only narrow slots for the passage of electron beams connect the two chambers. Each chamber has an individual vacuum system. The service life of cathodes in this furnace runs into hundreds of hours and is determined only by the evaporation rate of the tungsten filaments. Ingots 30 to 100 mm in diameter and up to [MS]

Card 2/2

LAKOMSKIY, V.I.; TIKHONOVSKIY, A.L.

Vaporization of metal during its melting with an electron beam. Avtom. svar. 17 no.7:50-53 Jl '64. (MIRA 17:8)

1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR.

TIKHONOVSKIY, I.D.

Devices which increase the safety of operation. Elek.i tepl.tiaga 4 no.2:10 F '60. (MIRA 13:6)

1. Starshiy master po rtutnym vypryamitelyam 1-go uchastka energosnabzheniya, Stalinskaya doroga. (Exhaust systems) (Electric current rectifiers)

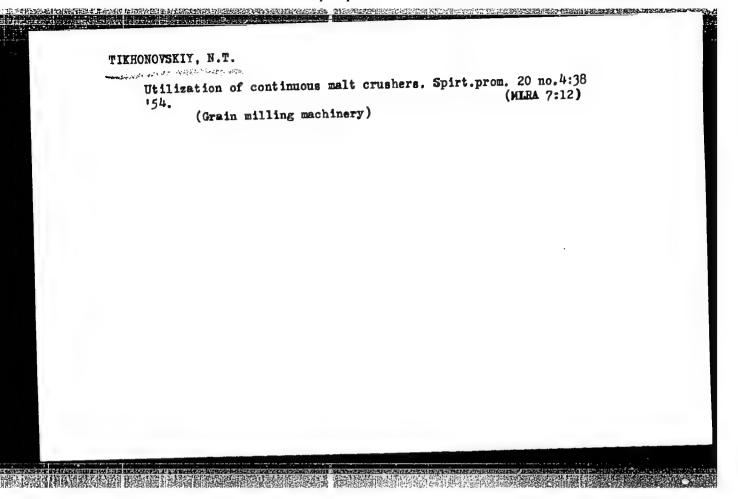
TIKHOHOVSKIY, I. I:

Tikhonovskii, I. I. "The Sinferopol Seismic Station of the Academy of Sciences of The U.S.S.R. Attached to the Crimean Scientific-Exploration Institute." Trudy Krymskogo Nauchno-Issled. Instituta, Simferopol, vol. 2, No. 2, 1929, pp. 15-22.

Foliar feeding of green gooseberry cuttings. Vestsi AN BSSR. Ser.

(MIRA 14:7)
bilal. nav. no.2:123-124 '61. (FERTILIZERS AND MANURES)
(PLANT GUTTINGS)

(GOOSEBERIES)



 TIKHOMOVSKIY, V. I., inzh.; PUGO, A. M., inzh.

Short-delayed blasting with KZDSh-58 pyrotechnic relays. Bezop. truda v prom. 6 no.9:22-24 S 162. (MIRA 16:4)

1. Vsesoyuznyy trest po burovym i vzryvnym rabotam (for Tikhonovskiy). 2. Gosudarstvennyy gornorudnyy kombinat Kurskoy magnitnoy anomalii (for Pugo).

(Blasting)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755620016-8"

Special purpose automatic drilling machine. Stan.i instr. 33 (MIRA 15:9) ro.9:40-41 S '62. (Drilling and boring machinery)

```
Tikhonravon, N. = "The power of gasoline," Illustrated by A. Orlov, Zhaniya-sila, 1949, No. 2, p. 20-22

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)
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TIKHORR	AVCV, M.I.
	"Puti ispol'zovaniya luchistoi energii dlya kosmicheskogo poleta" (Ways of utilizing radiant energy for cosmic flight), in Resktivnoe dvizhenie (Reactive motion), Collection No. 2, Moscow and Leningrad, 1936.

Training MARINER . 72. 6%

TIKHONRAVOV, M. K.

Polet ptits i mashiny s mashushchimi kryl'iami. 2. dop. izd. Moskva, Oborongiz, 1949. 206 p., illus.

Bibliography: p. 201-204.

Title tr.: The flight of birds and machines with flapping wings.

TL717.T5

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

CIA-RDP86-00513R001755620016-8" APPROVED FOR RELEASE: 07/16/2001

FEODOS'YEV. Vsevolod Ivanovich; SINYAREV, Gennadiy Borisovich; TIKHONRAVOV, M.K., professor, retsenznet; KAIASHNIKOV, N.T., kandidat tekhnicheskikh nauk, redaktor; LOSEVA, G.F., izdatel'skiy redaktor; ZUDAKIE, I.M., tekhnicheskiy redaktor

[Introduction to rocket engineering] Vvedenie v raketnuiu tekhniku. Moskva, Gos. izd-vo obor. promyshl., 1956. 375 p. (MLRA 9:11)
(Rockets (Aeronautics))

INHENKAVEV

Poland/Cosmochemistry. Geochemistry. Hydrochemistry

Abs Jour

: Referat Zhurnal Kh miny No 0,1957 18883

Author Inst

: Tikhonravov N

Title

: Geochemical and Radioactive Research

Orig Pub

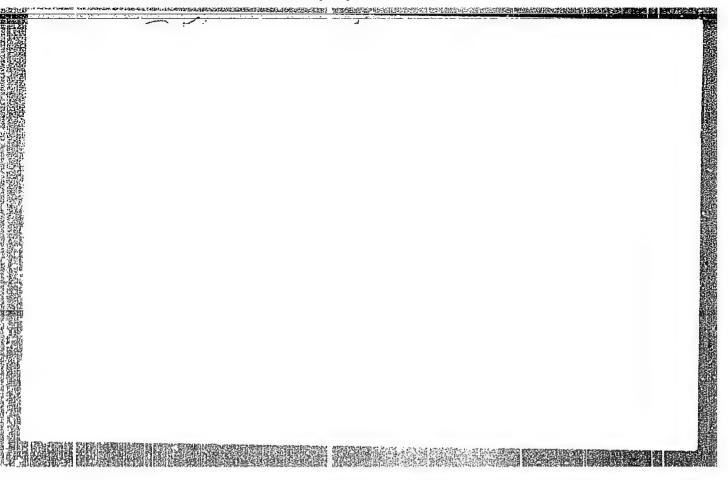
: Nafta (Krakow) 1955 ll, No 9, 217-219

Abstract

: No abstract.

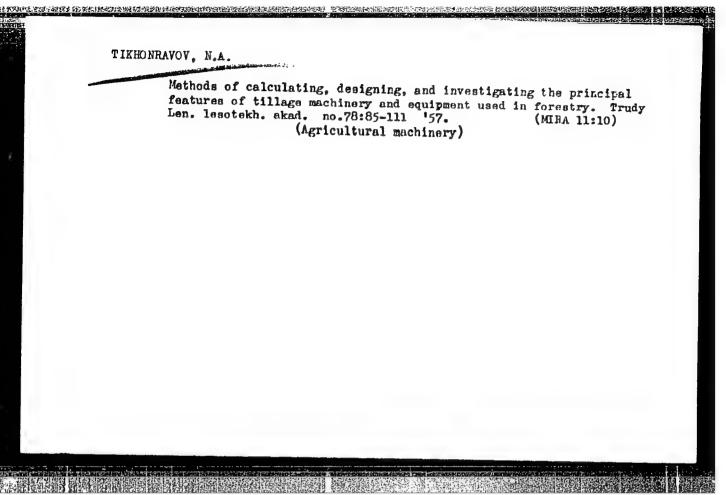
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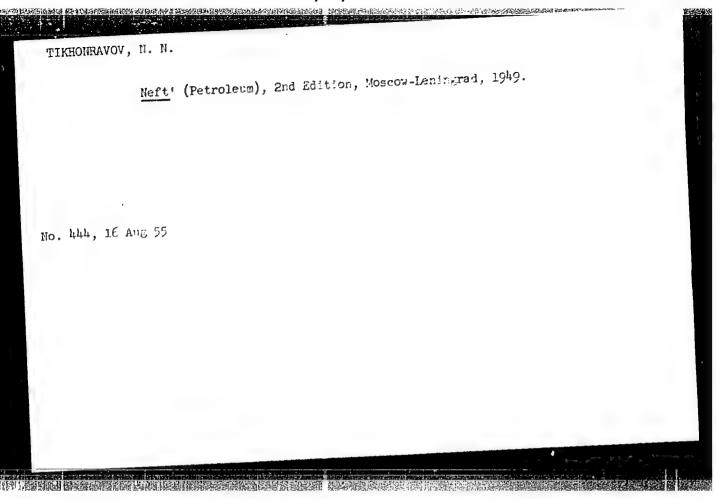
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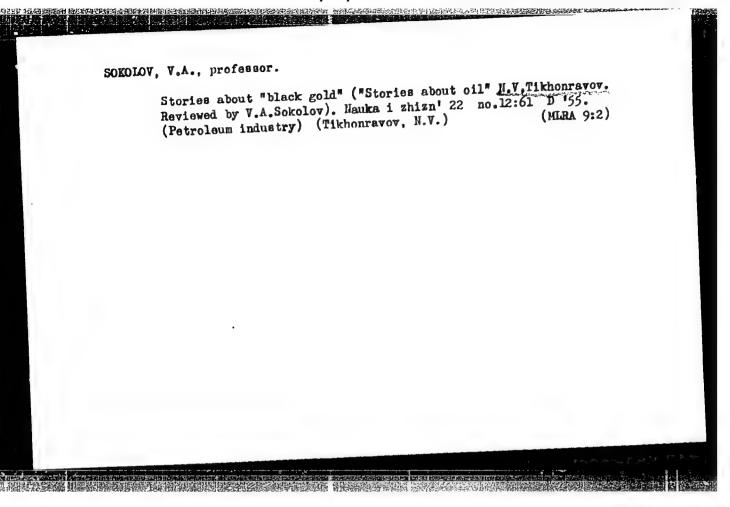


TIKHONRAVOV, N. A. Cand Tech Sci -- (diss) "On the methods of the calculation, designing and study of the basic parameters of certain soil-cultivating forest machines and the control of the basic parameters of certain soil-cultivating forest machines and the control of the basic parameters of certain soil-cultivating forest machines and the control of the basic parameters of certain soil-cultivating forest machines and the calculation, and the calculation, designing and study of the basic parameters of certain soil-cultivating forest machines and the calculation, and the calculation, designing and study of the basic parameters of certain soil-cultivating forest machines and the calculation, and the calculation, and the calculation, and the calculation uses the calculation of the calculation, designing and study of the basic parameters of certain soil-cultivating forest machines and the calculation uses. The calculation of the calc

-76-







"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755620016-8

SERGITENKO, S.R.; TOFCHIYEV, A.V., akademik, redaktor; TIKHOMRAYON, M. Perdaktor; ASTAFITEVA, G.A., tekhnicheskiy redaktor.

[Outline of the development of the chemistry and processing of petroleum] Ocherk razvitiia khimii i pererabotki nefti. Moskva, Izd-vo (MIRA 8:4)

Akad.nauk SSSR, 1955. 309 p.

(Petroleum)

TIKHOMRAYON

Nikon

Nikon

Nikon

Principle

**

TIKHONRAVOV, S., LILOV, A. (Chernovtsy); SHEVCHENKO, S.

Readers report, advise, suggest.... Zhil. kom.khoz. 12
no.11:30 N '62. (MIRA 15:11)

1. Predsedatel' ob"yedinennogo komiteta professional'nogo soyuza rabochikh mestuoy promyshlennesti i kommunal'nogo khozyayutva Kalinineskogo rayona Moskvy (for Tikhonravov). 2. Nachal'nik planov-ekonomicheskogo otdela Alma-Attnskogo tramvayno-trollsy-busnogo upravleniya (for Shevohenko).

(Municipal services)

TIKHONRAVOV, V. A., Engineer-Lieutenant Colonel

"Stresses in an Elastic Wheel During Rolling." Thesis for degree of Cand Technical Sci. Sub 7 Jun 50, Military Air Engineering Academy imeni Professor N. YE. Zhukovekiy.

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineer-ing in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>. Jan-Dec. 1950.

TIKHONRAVOV, V.A., ORZHESHKOVSKIY, V.V.; SOLOV'YEVA, T.P.; SHILIAYEVA, T.I.

Protein formula of blood serum in patients with infectious nonspecific polyarthritis and its changes during therapy. Terap. arkh. 32 (MIRA 14:1) no. 4:49-53 S '60. (ARTHRITIS, RHEUMATOID) (BLOOD PROTEINS)

BARAMOV, Yu.B.; BARAMOVA, Ye.N.; BOBROVSKIY, V.I.; GRISHCHENKO, G.I.;
CONCHAR, G.V.; DCLBISH, V.S.; KALIMOVSKIY V.S.; KARAKOTSKIY, Ye.D.,
KULICHKOV, G.M.; KAGAMOVSKAYA, S.M.; LESTAV, A.V.; METELLIN, L.I.;
TIKMOHPANOV, Y.M. [deceased]; DOLBISH, V.S., spetsred.; KUZ'MINA.
V.S., red.; KISINA, Ye.I., tekhn.red.

[Fishing equipment used in Far Eastern waters] Orudiia rybolovstva
Dal'nevostochnogo Basseina. Moskva, Pishchepromizdat, 1958, 214 p.
(MIRA 11:12)

(Soviet Far East--Fishing--Equipment and supplies)

TIKHONRAVOVA, G.G.

Drying ground wood in suspension. Der. prom. 12 no.1:11-12 Ja
(MIRA 16:5)

(Wood waste-Drying)

MALININ, S.N., dotsent, kand.ekon.nsuk, otv.red.; LUPINOVICH, I.S., doktor sel'skokhoz.nsuk, akademik, zemesttitel' otv.red.; URUSOV, V.V., otv.red. po vypnaku; LUKASHEV, K.I., doktor geologo-mineral.nsuk, akademik, red.; AVKSENT'YEV, A.N., kand.geologo-mineral.nsuk, red.; ROGOVOY, P.P., doktor sel'skokhoz.nsuk, akademik, red. Sostaviteli kart: BOBYLEVA, Ye.A.; VOLKOVA.V.V.; VORONTSOVA, G.V.; MARKOVA, N.T.; TIKHONHAVOVA, Ye.V.. IL'YUSHIN, I.M., kand.filosof.nsuk, red.kart; KRAVCHENKO, I.S., kand.istor.nsuk, red.kart; KUPREVICH, V.F., doktor biolog.nsuk, akademik, red.kart; BURZGAL, T.S., red.-kartograf; GULYUK, G.I., red.-kartograf; LEVSHINOV, A.O., red.-kartograf; HUTKOVSKAYA, M.S., red.-kartograf; SVIRSKIY, A.S., red.-kartograf

[Atlas of the White Russian Soviet Socialist Republic] Atlas Belorusskoy Sovetskoy Sotsialisticheskoy Respubliki. Minsk. Akad.nauk BSSR. Glav.upr.geodez. i kartografii MVD SSSR, 1958. XIV. 140 maps. (MIRA 12:4)

1. Predsedatel' Gosplana BSSR (for Malinin). 2. AM BSSR; prezident Akademii sel'skokhoz.nauk BSSR (for Lupinovich). 3. Direktor Minskoy kartograficheskoy fabriki (for Urusov). 4. AN BSSR; vitse-prezident AN BSSR (for Lukashev). 5. AN BSSR (for Rogovoy); 6. Chlen-korrespondent AN BSSR (for Il'yushin). 7. AN BSSR; chlen-korrespondent AN SSSR; prezident AN BSSR (for Kuprevich).

(White Russia--Maps)

15-57-5-6619

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

p 132 (USSR)

AUTHORS: Burshteyn, S. I., Davtyan, O. K., Tikhonyuk, R. V.

TITLE: A Study of the Adsorption Properties of the Brown-Green Clays in the Odessa Deposit (Issledovaniye

adsorbtsionnykh svoystv buro-zelenykh glin Odesskogo

mestorozhdeniya)

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PERIODICAL: Tr. Odessk. un-ta, 1956, Vol 146, ser. khim. n.,

Nr 5, pp 83-90.

ABSTRACT: The brown-green clays of the Kuchurgan deposit in the

Odessa district were investigated, especially their adsorption properties and their activation. The chemical composition of these clays is (in percent) SiO₂ 62.08, Al₂O₃ 14.9, Fe₂O₃ 5.0, CaO 6.1, MgO 0.8, SO₃ 0.3, and others 6.85. The clays are beidellitic and are of the same color as the activated Zikeyevskiy trepel (tripoli). The adsorption of green beidellitic clays

is similar to the adsorption of the Gumbriya clays,

Gard 1/2 among the best of natural adsorbents. The brown-green

A Study of the Adsorption Properties of the Brown-Green Clays (Cont.)

clays were activated for two hours in 30 percent sulfuric acid or in ten clays hydrochloric acid. On testing with sunflower oil this material gives a discoloration factor 20 percent greater than that material gives a discoloration factor 20 percent greater than that for the Zikeyevskiy tripoli. These results confirm the suitability for the Zikeyevskiy brown-green clays for purifying vegetable oils. Card 2/2

S. P. Sh.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755620016-8"

TIKHONYUK, R.V.

USSR /Chemical Technology. Chemical Products

I-12

and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31487

Author : Burshteyn S.I., Davtyan O.K., Tikhonyuk R.V.

Inst : Odessa University

Title : Study of Adsorption Properties of Brown-Green

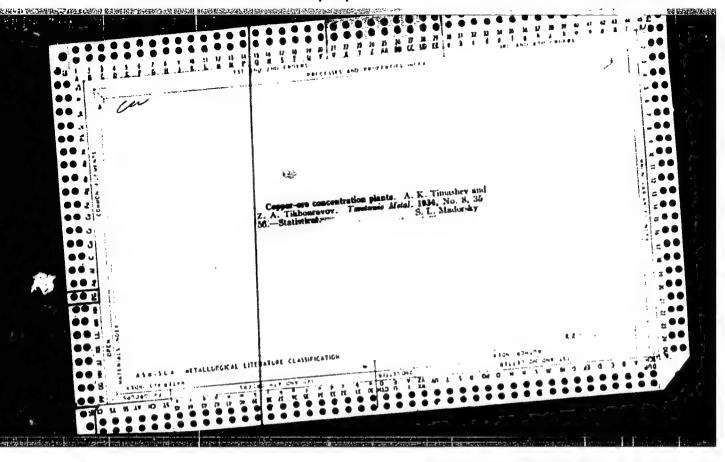
Clays of the Odessa Deposit

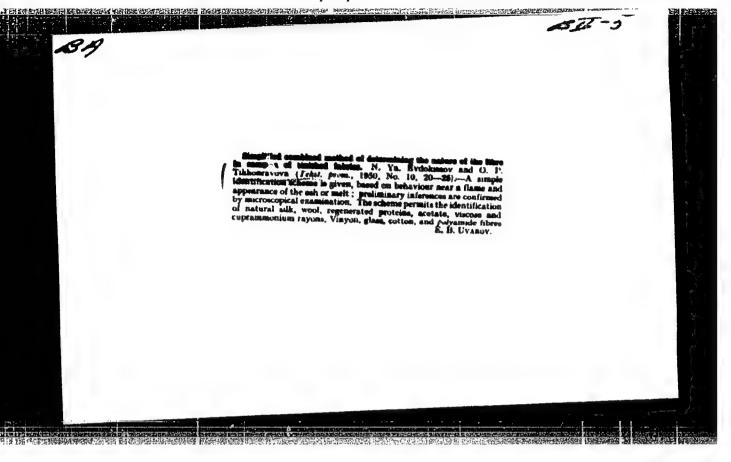
Orig Pub: Tr. Odessk. un-ta, 1956, 146. Ser. khim. n.,

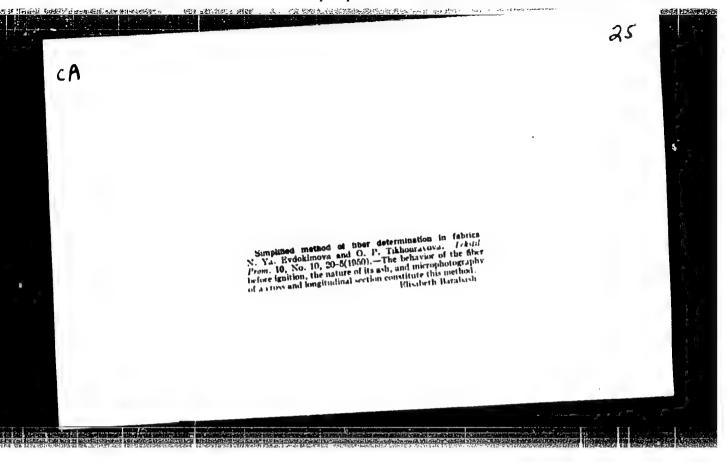
No 5, 83-90

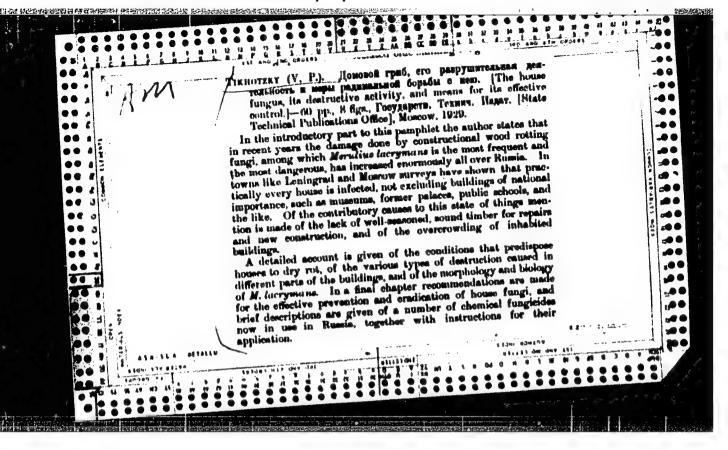
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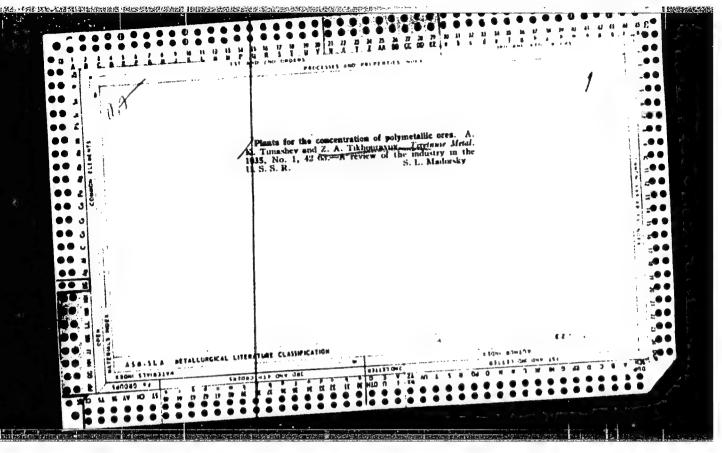
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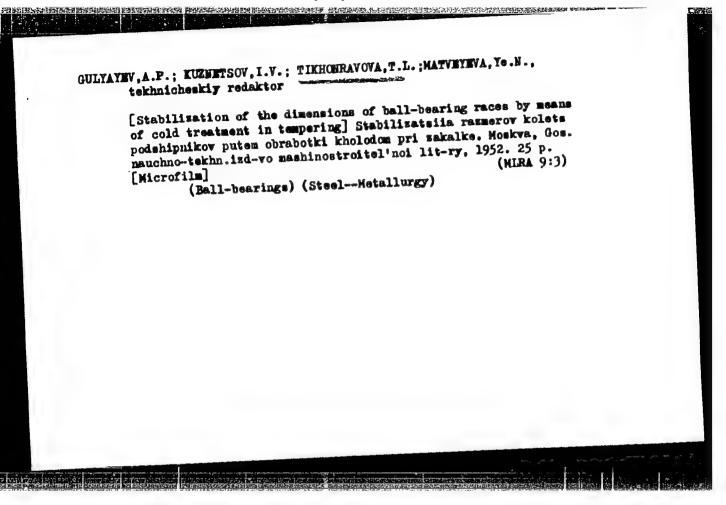


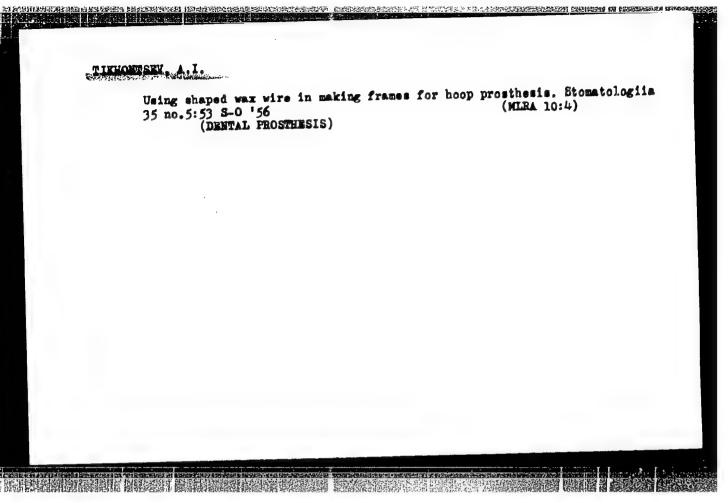












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27641 S/194/61/000/002/030/039 D216/D302

AUTHORS:

Rozin, Yu.P. and Tikhonova, V.S.

TITIE:

An instrument for measuring the intensity of the

ultrasonic field in conducting liquids

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika. no. 2, 1961, 12, abstract 2 E96 (V sb. Primeneniye ultraakust. k issled. veshchestva, no. 11, M., 1960,

233-237)

TEXT: An ultrasonic pick-up of small dimensions is described, used for measuring the intensity of elastic vibrations in electrically conductive liquids. It consists of a double wall metal tube 3 mm diameter, inside which is placed a metallic shaft slightly shorter than the tube itself. A contact indicator is connected between the chassis and the shaft. The contact indicator is built around a 6E5C (6Ye5C) tube which has a stable gain for the contact resistance between 0 and 108 ohm which permits one to perform mea-

Card 1/2

27641 S/194/61/000/002/030/059 D216/D302

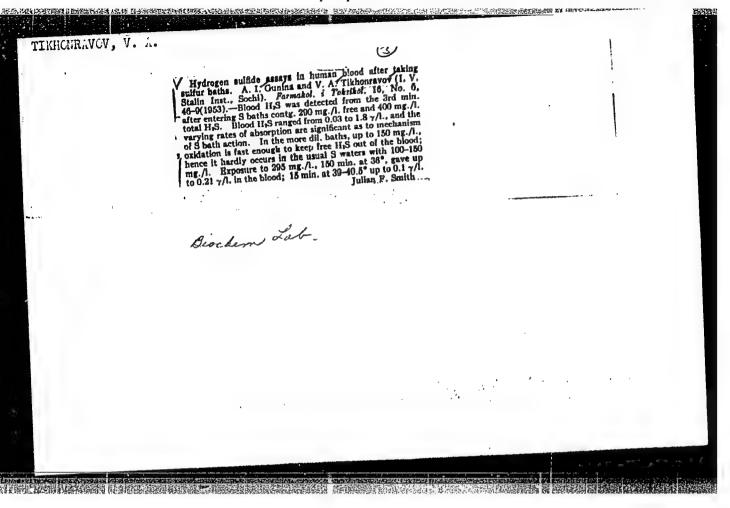
An instrument for measuring...

surements even in liquids with very small electrical conductivity (acetone, alcohol). When the sensing device is placed in an uttrasonic field, the liquid level in the tube rises under the influence of radiating pressure and closes the circuit shaft chassis which is registered by the indicator. The pressure in the tube is then raised by one means or another, until the indicator circuit becomes open again. The amount of pressure determines the equalizing force and consequently the intensity of the ultrasonic field at the given point. The threshold sensitivity of the instrument is 0.1 - 0.2 W/cm². There are 4 figures and 2 references.

Card 2/2

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755620016-8



OYVIN, I.A.; GUNINA, A.I.; TIKHONRAVOV, V.A.

Machanism of the physiological action of hydrogen sulfide (Matsesta) water. Vop.kur.fizioter. i lech.fiz.kul't. no.2:13-20 Ap-Je '55; (MLRA 8:8)

1. Is biokhimicheskoy laboratorii Bal'neologicheskogo instituta imeni Stalina i eksperimental'noy laboratorii Tsentral'-nogo sanatoriia imeni Voroshilova (Sochi)

(MINERAL WATERS, effects,
hydrogen sulfide water, mechanism of physiol, action)

TIKHONRAVOV, V.A.; SOLOV'YEVA, T.P.; TSVERIANISHVILI, G.K.; FILIHOV, B.N.

Change in the glucoseamine content and indicators of the diphenylamine reaction in the serum of patients with rheumatic fever during troatment. Vrach. delo 4:55-58 Ap '62. (MIRA 15:5)

1. Kliniko-biokhimicheskaya laboratoriya (zav. - dotsent V.A.

Tilhoravova, konsul'tant - prof. I.A.Oyvin) Sochinskogo instituta kurortologii.

(GLUCOSEAMINES) (DIPHENYLAMINE) (SERUM)

(RHEUMATIC FEVER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755620016-8"

EARLAND AND THE CONTROL OF THE SECOND SECOND

TELECRATION, V.A.; SOLOV' YEVA, T.P.

Serum mucoproteins in rheumatic fever and infectious nonspecific polyarthritis and their dynamics during treatment. Vop. revm. 2 no.2:8-13 Ap-Je*62 (MIRA 17:3)

1. Iz biokhimicheskoy laboratorii (zav. - dotsent V.A. Tikhonravov) Sochinskogo instituta kurortologii (dir. - zasluzhennyy deyatel' nauki prof. M.M. Shikhov).

TIKHONRAVOV, V. A.; SOLOV'YEVA, T. P.; VLADIMIROVA, Z. Ya.; SHILYAYEVA, T. I. (Sochi)

Urinary excretion of 17-ketosteroids in rheumatism and infectious nonspecific polyarthritis during treatment with cortisone, ACTH, pyrasolidine and salicylates. Probl. endok. i gorm. 8 no.3: 82-86 My-Je '62. (MIRA 15:6)

1. Iz biokhimicheskoy laboratorii (zav. - dotsent V. A. Tikhon-ravov), kliniki aktivnogo revmatizma i kliniki revmatoidnykh artritov (zav. - prof. M. M. Shikhov) Sochinskogo instituta revmatizma.

(RHEUMATIC FEVER) (ARTHRITIS, RHEUMATOID)
(STEROIDS) (CHEMOTHERAPY)

TIKHOLRAVOV, V.A.

Iodine test of the colloidal lability of the serum in rheumatic fever and infectious nonspecific polyarthritis. Vrach. delo no.4: 145-146 Ap²63. (MIRA 16:7)

1. Kliniko-biokhimicheskaya laboratoriya (zav.-dotsent V.A. Tikhonravov) Sochinskogo instituta revmatizma.

(ARTHRITIS, RHEUMATOID) (RHEUMATIC FEVER)

(BLOOD PREOTEIES)

TIKHONRAVOV, V.A.; SOLOV'YEVA, T.P.; FILINOV, B.N.; TSVERIANISHVILI, G.K.

THE REPORT OF THE PROPERTY OF

Glycoproteins of the blood serum in rheumatic fever. Vop. revm. 1 no.3:60-64 J1-S '61. (MIRA 16:4)

1. Iz biokhimicheskoy laboratorii (zav. - dotsent V.A. Tikhonravov, konsul'tant - prof. I.A.Oyvin) Instituta kurortologii (dir. - zasluzhennyy deyatel nauki prof. M.M. Shikhov), Sochi.
(RHEUMATIC FEVER)

(GLYCOPROTEINS)

ACC NRI	AT6036627	SOURCE CODE:	UR/0000/66/006/600/0324/0325
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AUTHOR: Ratner, G. S.; Tikhonravova, N. M.; Atamanenko, A. N.; Novopashina, R. F.; Pakhorukov, A. M.

ORG: none

TITLE: Problem of utilizing several species of higher and lower heterotrophs in a life-support system for small closed compartments [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 324-325

TOPIC TAGS: life support system, closed ecological system, space nutrition, space food

ABSTRACT:

Life-support systems on small spaceships will have to include a link of heterotrophic organisms in order to supply the crew with animal products necessary for the normal human diet. For this purpose it is valuable to examine a series of heterotrophic organisms which can be successfully utilized in life-support systems.

1/3

ACC NR: AT6036627

The inclusion of various types of herbivorous and omnivorous fish (Tilapia, Hypophtalmichtys, Ctenopharyngodon, carp, and others) will make it possible to provide a more variable protein diet for humans and to utilize wastes of higher and lower plants and animals. In order to supply a man with 50 g of animal protein per diem will require 51.6 kg of Tilapia. With a fish population density of 15 g/liter of water, it is necessary to have a 3500-liter aquarium which will require approximately 112 liters of oxygen per diem.

Certain water invertebrates such as Artemia, Gammarus, and Daphnia may prove to be a valuable addition to the cosmonaut diet. These animals are readily eaten by fish and chickens. Calculations indicate that in order to get 50 g of protein per diem from Daphnia at a population density of 200 g/m³, 31.2 m³ will be required. Certain species of Gammarus may make it possible to obtain the same amount of protein from 4 m³.

Since heterotrophic organisms (birds, fishes, and others) which can be used as sources of animal protein for human nutrition in spaceflight will not be able to utilize all of the wastes, and will themselves require a certain amount of aminal food for their growth, it seems

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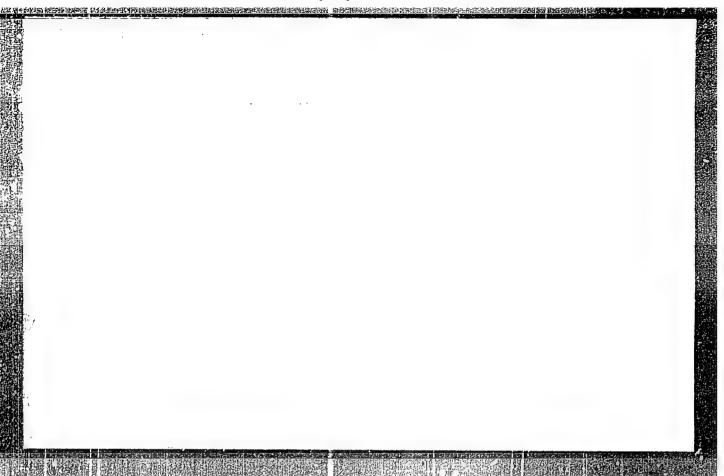
necessary to add a link of the so-called primary utilizers of organic substances. Among these should be included organisms which compose the biocenosis of activated sludge and certain terrestrial species of lower heterotrophs.

The final selection of individual species of heterotrophs for inclusion in the life-support system can be made only after prolonged experiments to determine the possiblity of adaptation of organisms to the specific conditions of the spaceflight environment and the biological compatibility of the selected animals.

₩. A. No. 22; ATD Report 66-116/

SUB CODE: 06 / SUBH DATE: 00Hay66

Card 3/3



L 35366-66

ACC NR: AR6017803

SOURCE CODE: UR/0058/66/000/001/A061/A061

AUTHOR: Tikhonyuk, A. I.; Khazanov, B. I.

TITLE: Apparatus for registration of minimum rise over the background intensity level

SOURCE: Ref. zh. Fizika, Abs. 1A521

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr. vyp. 2, 1965, 70-76

TOPIC TAGS: radiation dosimetry, pulse counting, digital computer, computer component

ABSTRACT: The authors consider the principal construction of electronic apparatus intended for registration of the minimum rise above the background level during the course of dosimetric control. The described apparatus is based on the principle of discrete counting, since it is used to register small intensity levels. Signals from the detector, following a normalization stage and gating equipment, are fed simultaneously to the inputs of the recording circuit and the system for extraction of the square root of the number of pulses. The square root extraction operation is realized during the course of a time specified by a timer device. The common timer device triggers the programmer of the summation circuit, which contains a program unit, the memory register, the transfer gates, and the pulse-count register. The operating principle of the apparatus is explained with the aid of block diagrams and electronic schematic diagrams of individual units of the instrument. A. Lebedev. [Translation of abstract]

SUB CODE: 18, 09

Card 1/1 both

_	L 04154-67 EWT(m)/T/EWP(t)/ETI IJP(c) JD ACC NRI AR6016528 SOURCE CODE: UR/0276/65/000/012/B039/B039	ŀ							
	AUTHOR: Kheyfets, G. N.; Yankovskiy, V. M.; Kadinova, A. S.; Shkurenko, A. A.; Feyglin, V. N.; Tikhonyuk, A. N.								
	TITLE: Determining the basic parameters for cooling of gas cylinders during jet annealing								
:	SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 12B294								
	REF SOURCE: Sb. Proiz-vo trub. Vyp. 15. M., Metallurgiya, 1965, 72-79								
	TOPIC TAGS: liquid gas container, annealing, cooling								
	ABSTRACT: A method is proposed for studying the process of jet annealing of thick-walled gas cylinders to obtain data necessary for designing jet cooling devices. An experimental laboratory installation is designed and manufactured for individual and simultaneous water-cooling of the outer and inner surfaces of a gas cylinder while it is rapidly rotated to equalize cooling along the perimeter. The schematic diagram and technical characteristics of the experimental installation are given. Practical								
	curves are plotted for cooling along the cross section of the cylinder wall, the rate of flow of the coolant is determined and a method is found for cooling the cylinder wall at the required rate. Heat treatment conditions are established for cylinders								
	made of 40Kh steel. The workpiece is heated to the prequenching temperature of 870°C Card 1/2 UDC: 621.785.6								

ACC NR: AR6016528

in a batch-type furnace, held at this temperature for 40 minutes, cooled in a bilateral (inside and outside) jet cooling device, annealed at a temperature of 500°C and held at this temperature for 2 hours. It is shown that bilateral cooling gives the cylinder practically identical mechanical properties with respect to length and cross section and that these properties satisfy technical specifications. Schematic diagrams are developed for cooling devices to be used in annealing high-capacity gas cylinders. 6 illustrations, 1 table, bibliography of 3 titles. [Translation of abstract]

SUB CODE: 13

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755620016-8

KHEYFETS, G.N., kand. tekhn. mauk; YARKOWKIY, V.H., kand. tekhn. mauk; SCRKIN, I.I., kand. tekhn. nauk; KADINGWA, A.S., inzh.; FEYGLIN, V.N., inzh.; TIKHCHYUK, A.M., inzh.; SHKURERKG, A.A., inzh.; KHOMENKO, A.G., inzh.

Steam hardening of high-capacity cylinders. Stal' 25 no.8:849-(MIRA 18:9)

852 S 165.

TIKHONYUK, I. Wages of workers in planning organizations. Sots.trud.no.ll:lol103 N *56. 1. Starshiy inghener-normirovshchik Giprokisloroda. (Architecture-Designs and plans) (Wages)

TIKHONUK, I.N., (g. Kiyev)

Reflicient use of loaders and machinery in loading and unloading.

Zhel. dor. transp. 38 no.8:76 Ag '56.

(MERA 9:10)

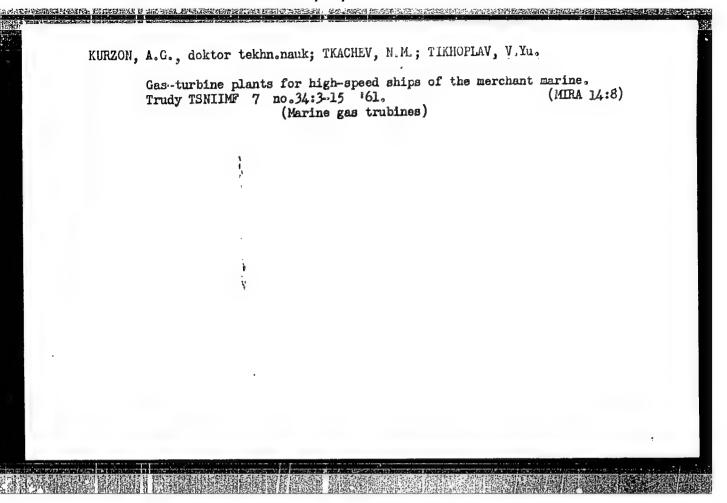
Zhel. dor. transp. 38 no.8:76 ag in in loading and unloading.

(Icading and unloading)

BURSHTEYN, S.I.; DAVTYAN, C.K.; TIKHONYUK, R.V.

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Bent. gliny Ukr. no.2:128-135 '58. (MIRA 12:12)

1.Odesskiy gosudarstvennyy universitet.
(Odessa Province--Clay) (Adsorption)



TIKHOPLAV, V.Yu., inzh.

New type of gas turbine engine for seagoing vessels and fundamentals for its application. Sudostroenie 27 no.11:19-23 N '61.

(Planing hulls)

(Marine gas turbines)

7711-00 ACC TIRT AP5028408

SOURCE CODE: UR/0229/65/000/010/0021/0023

AUTHOR: Veshedchenko, A. N.; Tikhoplay, V. Yu.

ORG: none

TITLE: Compensating the unloading of hydrofoil by decreasing power plant output

SOURCE: Sudostroyeniye, no. 10, 1965, 21-23

TOPIC TAGS: hydrofoil, hydrofoil lift, hydrofoil range

ABSTRACT: The continuous weight reduction (up to 30-35%) of an operating hydrofoil makes it necessary to provide means for decreasing the buoyancy of its foil sys-

$$\frac{\Delta D}{D} = \frac{\Delta C_g}{C_g} + \frac{\Delta F}{F} + 2\frac{\Delta v_g}{v_g},$$

where D = weight, F = supporting surface, C_y = lift coefficient, and V_s = speed, it follows that the most effective means of controlling the lift of a foil system is to regularly decrease the power plant's output and, hence, the speed of the foil. In this instance, deeply submerged foils retain a constant angle of attack and a constant submersion depth and supporting surface, and thus ensure. both high hydrodynamic efficiency and lift. The discussed performance, characterized by $dv_{\rm g}/dt$ < 0 ($v_{\rm g}$ = speed in knots; t = time in hours), provides the maximum range, in comparison with

UDC: 629.12.039

culation method an ment. which corres	onditions, i.e., for for calculating spe me, lift, and the mad two graphs are pre	ximum duration sented for det	of operation ermining a hy	utput, and ra • A tabulate drofoil's dis	nge
	ig. art. has: 2 fig	· · · · · · · · · · · · · · · · · · ·	our to folding	98.	GE]
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TIKHOPIAV, V.Yu., inzh.

Efficiency of marine gas turbine plants with separate consumption of the working medium. Sudostroenie 29 no.3:25-29 Mr '63. (MIRA 16:4)

(Marine gas turbines)

TIKHORSKIY, K.

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 Starshiy yuriskonsul't Kaspiyskogo parokhodstva. (Maritime law)

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(Physical geogrpahy—Study and teaching)

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